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Koza, J.R.; Keane, M.A.; Yu, J.; Bennett, F.H., III.; Mydlowec, W.; Stiffelman, O.
Decision and Control, 1999. Proceedings of the 38th IEEE Conference on ,
Volume: 5 , 1999
Page(s): 5292 -5300 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(704 KB\)\]](#) **CNF****2 Automatic creation of both the topology and parameters for a robust controller by means of genetic programming**

Koza, J.R.; Keane, M.A.; Bennett, F.I., III.; Jessen Yu; Mydlowec, W.; Stiffelman, O.
Intelligent Control/Intelligent Systems and Semiotics, 1999. Proceedings of the
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 Hugo A. D. do Nascimento
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 James R. Swisher , Paul D. Hyden , Sheldon H. Jacobson , Lee W. Schruben
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 Charu C. Aggarwal , Philip S. Yu
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 In this paper, we explore a hybrid global/local search optimization framework for dynamic voltage scaling in embedded multiprocessor systems. The problem is to find, for a multiprocessor system in which the processors are capable of dynamically varying their core voltages, the optimum voltage levels for all the tasks in order to minimize the average power consumption under a given performance

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 Wern-Jieh Sun , Carl Sechen
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 We present a loosely coupled parallel algorithm for the placement of standard cell integrated circuits. Our algorithm is a derivative of simulated annealing. The implementation of our algorithm is targeted towards networks of UNIX workstations. This is the very first reported parallel algorithm for standard cell placement which yields as good or better placement results than its serial version. In addition, it is the first parallel placement algorithm reported which offers nearly linear spe ...
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 Genetic algorithms (GA) mimic natural reproduction to search for complex problem solutions. Their principles are shortly explained. A point of interest is the regular and repetitive structure of computation involving communication, data exchanges, and control phases. Interaction with presentation and analysis tools is also a requirement. This make sense for the definition of a general framework allowing fast building of parallel applications in an object-oriented system. A GA workbench is ...
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 ESP (Evolution-based Standard cell Placement) is a new program package designed to perform standard cell placement and includes macro-block placement capabilities. It uses the new heuristic method of simulating an evolutionary process in order to minimize the cell interconnection wire length. While achieving results comparable to or better than the popular Simulated Annealing algorithm, ESP performs its task about ten times faster.

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Genetic algorithms and simulated annealing for robustness analysis

Zhu, X. Huang, Y. Doyle, J.

California Inst. of Technol., Pasadena, CA, USA

This paper appears in: American Control Conference, 1997. Proceedings of the 1997

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Abstract:

Genetic algorithms (GAs) and simulated annealing (SA) have been promoted as useful, general tools for nonlinear optimization. This paper explores their use in robustness analysis with real parameter variations, a known NP hard problem which would appear to be ideally suited to demonstrate the power of GAs and SA. Numerical experiment results show convincingly that they turn out to be poorer than existing branch and bound (B) approaches. While this may appear to shed doubt on some of the hype surrounding these stochastic optimization techniques, we find that they do have attractive features, which are also demonstrated in this study. For example, both GAs and SA are almost trivial to understand and program, so they require essentially no expertise, in sharp contrast to the B methods. They may be suitable for problems where programming effort is much more important than running time or the quality of the answer. Robustness analysis for engineering problems is not the best candidate in this respect, but it does provide an interesting test case for the evaluation of GAs and SA. A simple hill climbing algorithm is also studied for comparison.

Index Terms:

genetic algorithms; simulated annealing; computational complexity; robust control; control system analysis; robustness analysis; nonlinear optimization; branch and bound; engineering problems; hill climbing algorithm
